

Application No.: 10/620,924

Docket No.: 30880/30011B

AMENDMENTS TO THE ABSTRACT

Please substitute the abstract on page 108 with the following amended abstract

The invention provides efficient methods for the isolation of centromeres from potentially any organism. ~~The methods represents an advance over the prior art in that costly and labor-intensive mapping programs are not required.~~ Using the technique the methods of the invention, methylated centromere DNA may be isolated from potentially any centromere in an organism. The technique is amenable to mass screenings employing use of arrays comprising libraries of DNA from a target species.